

TITLE: SEGMENTING CACHE TO PROVIDE VARYING SERVICE LEVELS

Inventors: Daniel Lambright, et al.

Serial No.: To be assigned

Agent: Anne E. Saturnelli

Filed: March 2, 2004

Reg. No.: 41,290

EMS-00503

Sheet 1 of 9

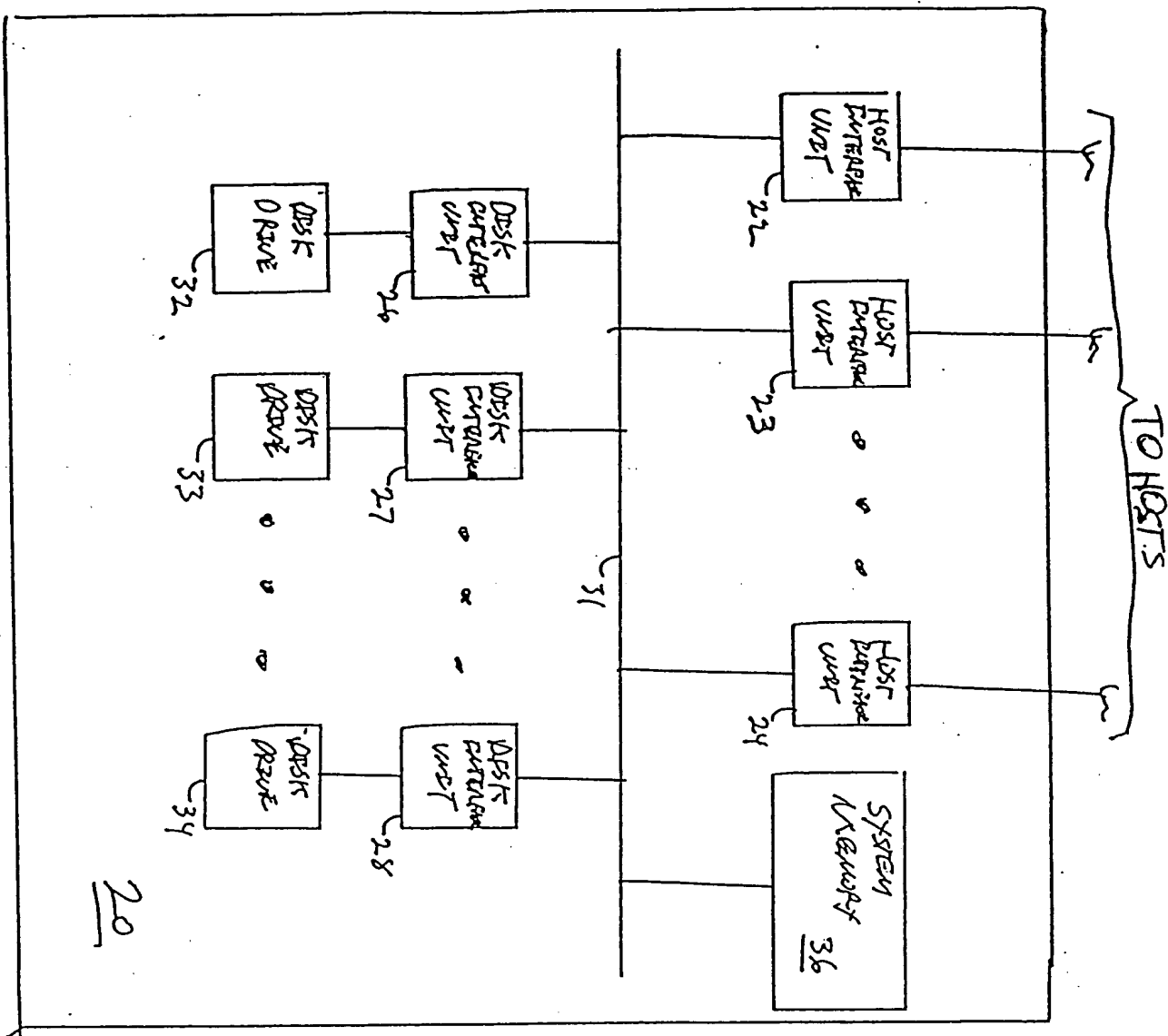


FIG. 1

20

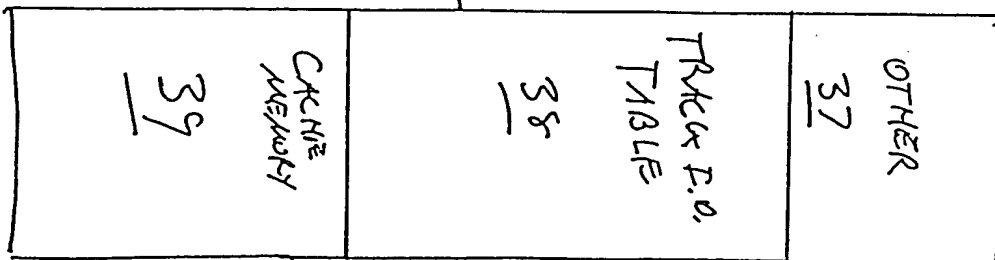


FIG. 2

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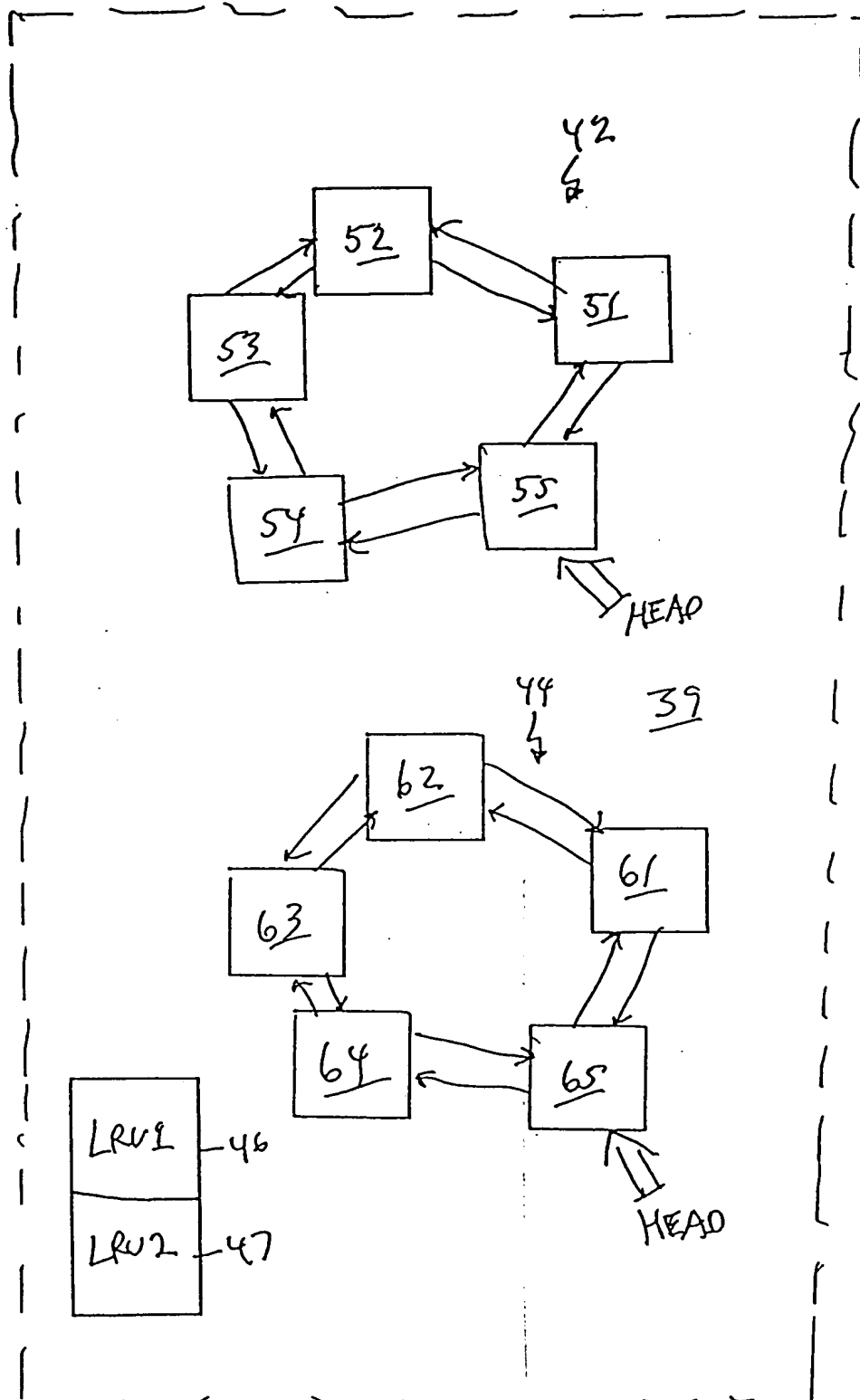


FIG. 3

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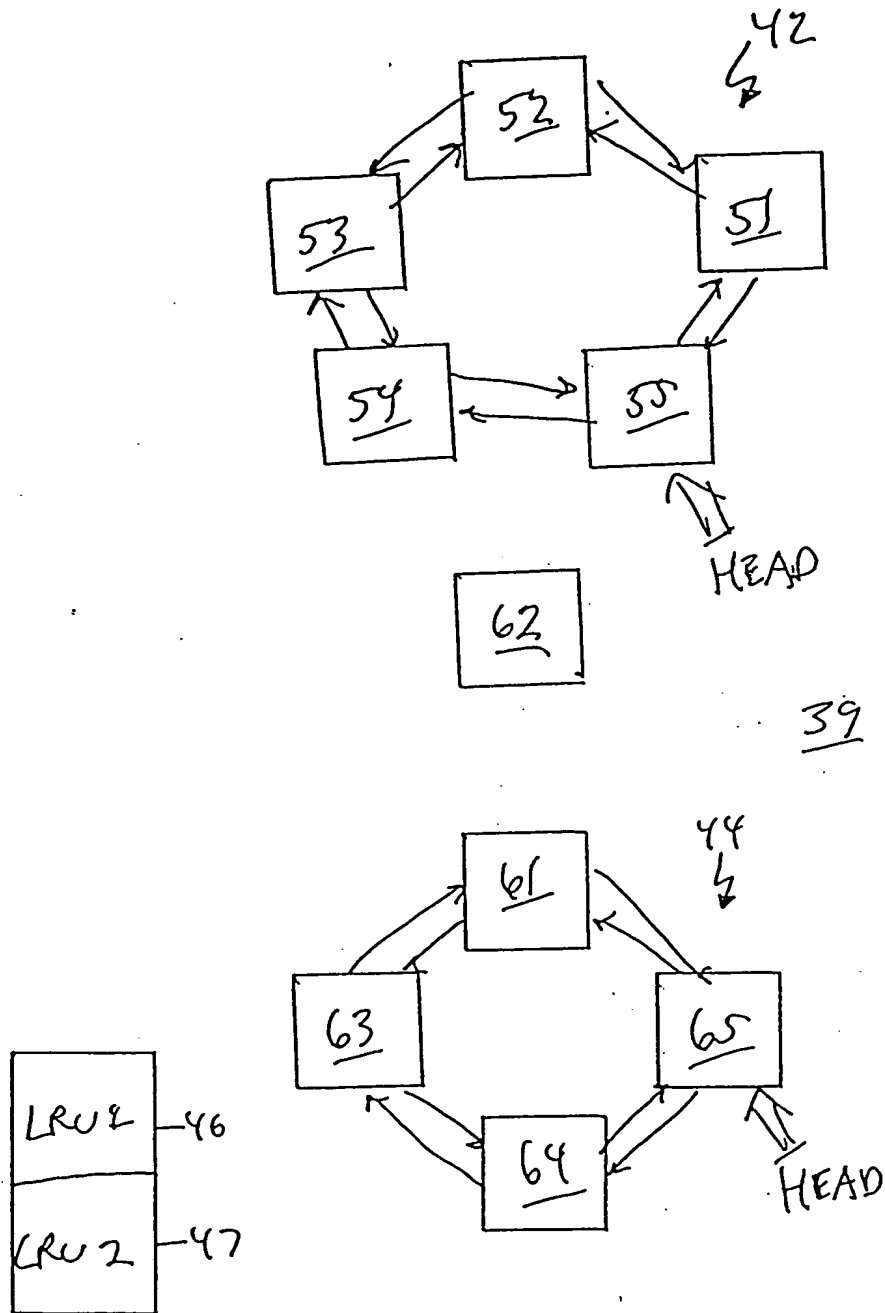


FIG. 4A

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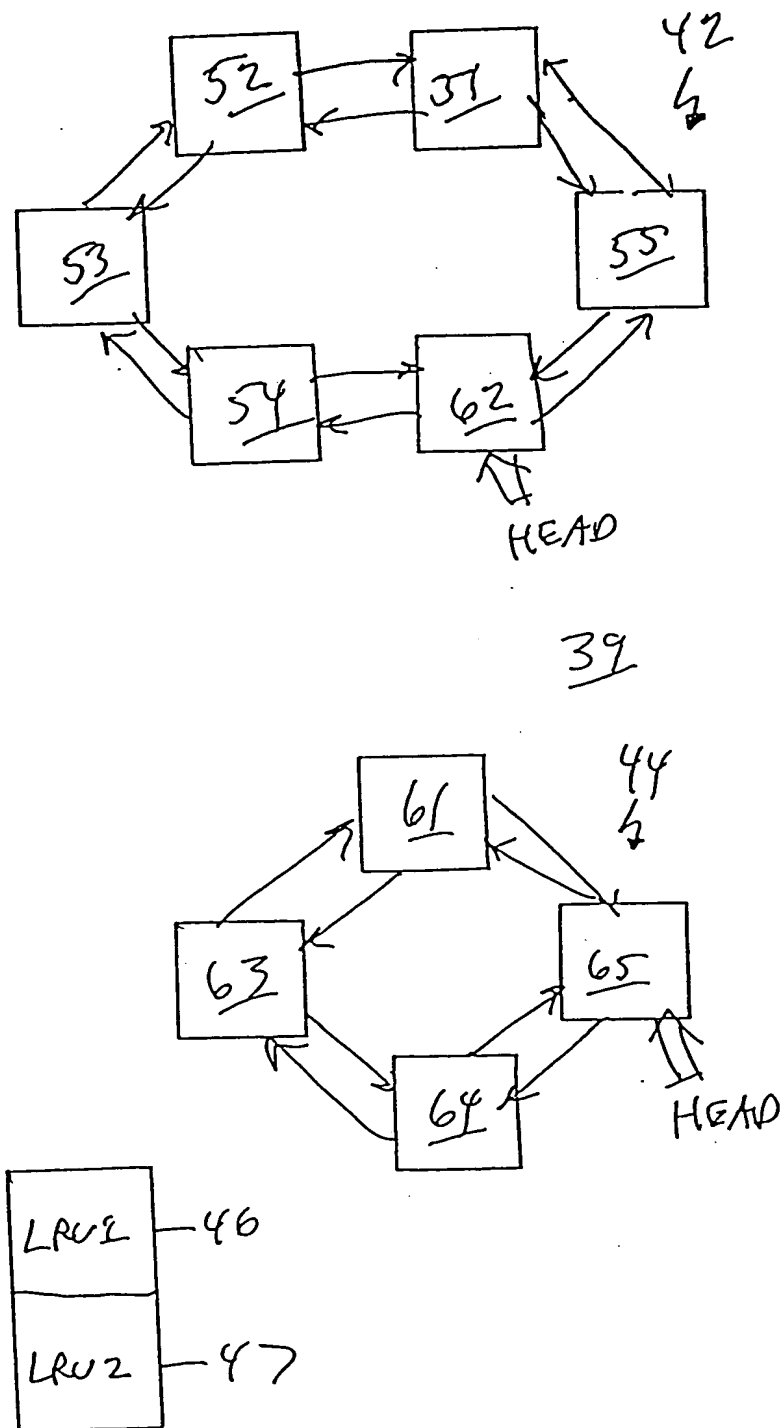


FIG. 4B

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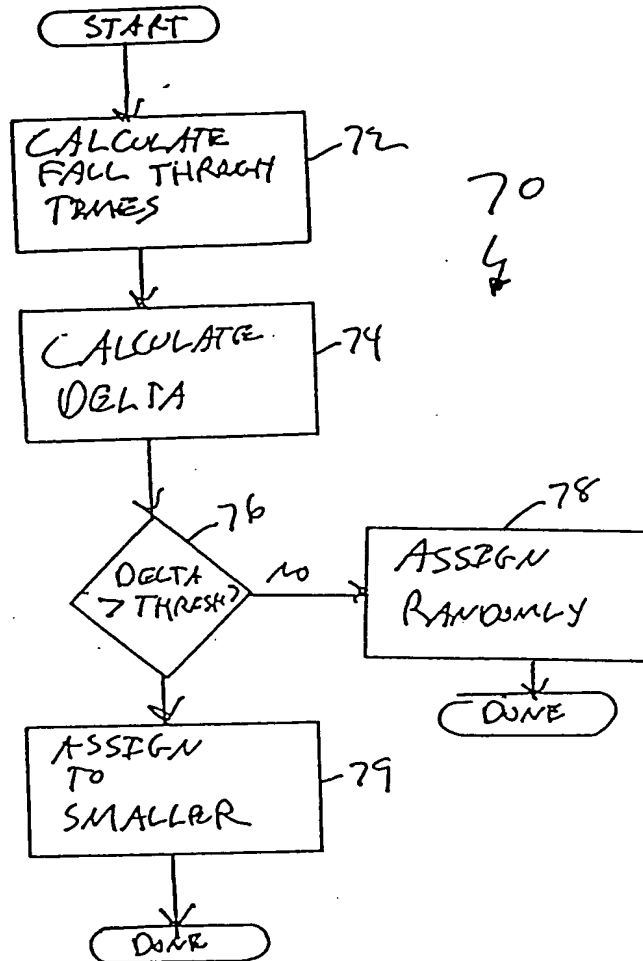


FIG. 5

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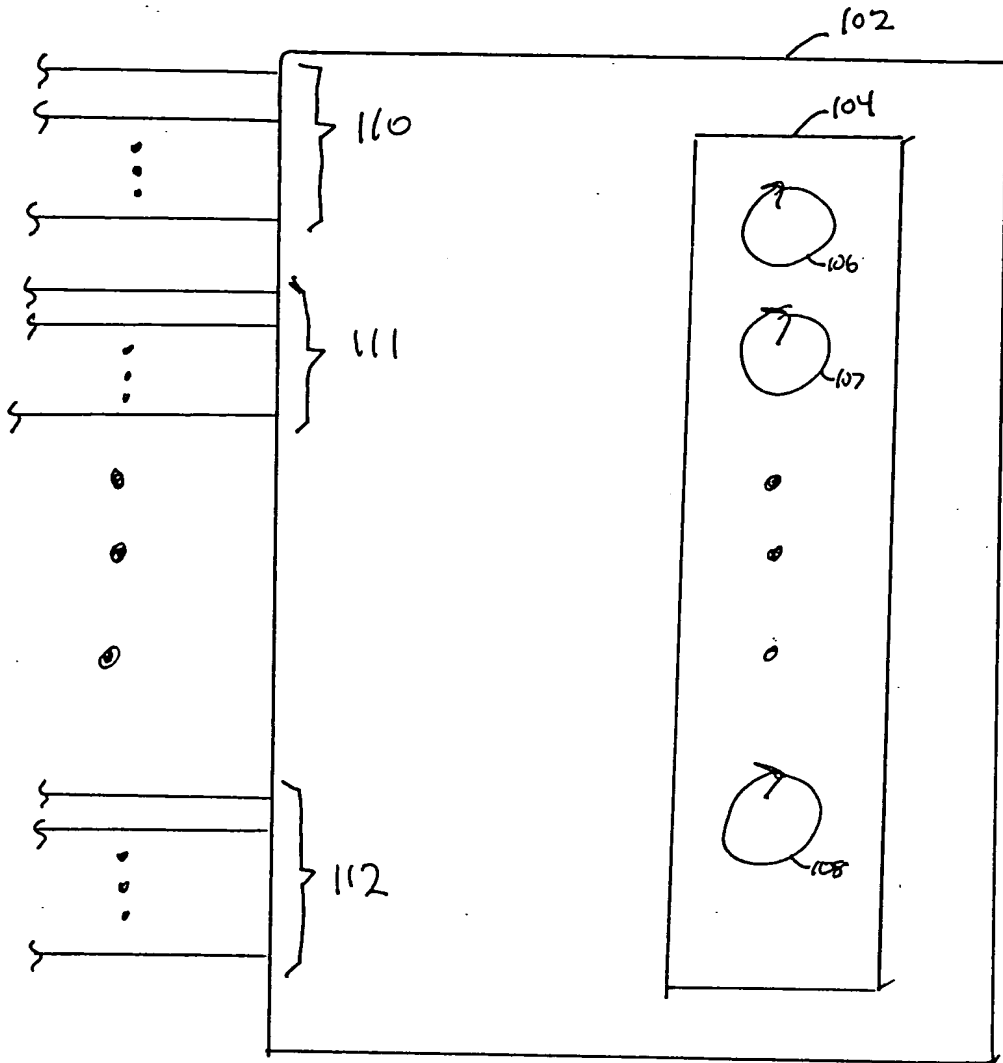


FIG. 6

GROUP	LRU Mask
1	111 0 0 0 0 0
2	0 0 0 1 1 0 0 0
3	0 0 0 0 0 1 1 0
4	0 0 0 0 0 0 1

FIG. 7

120
⚡

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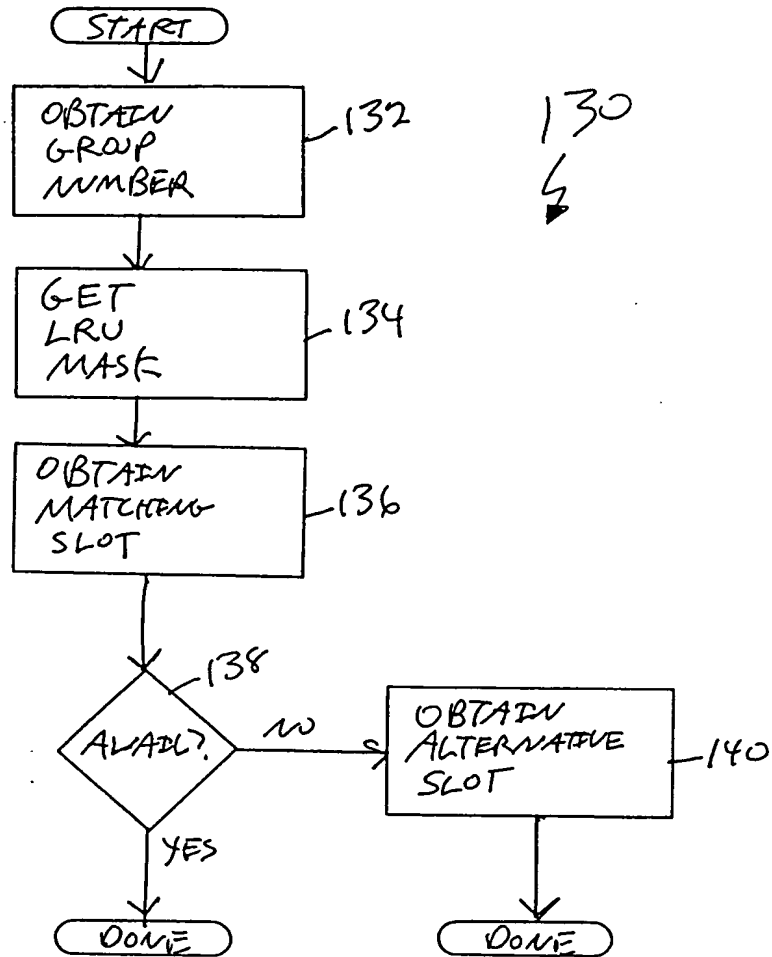


FIG. 8

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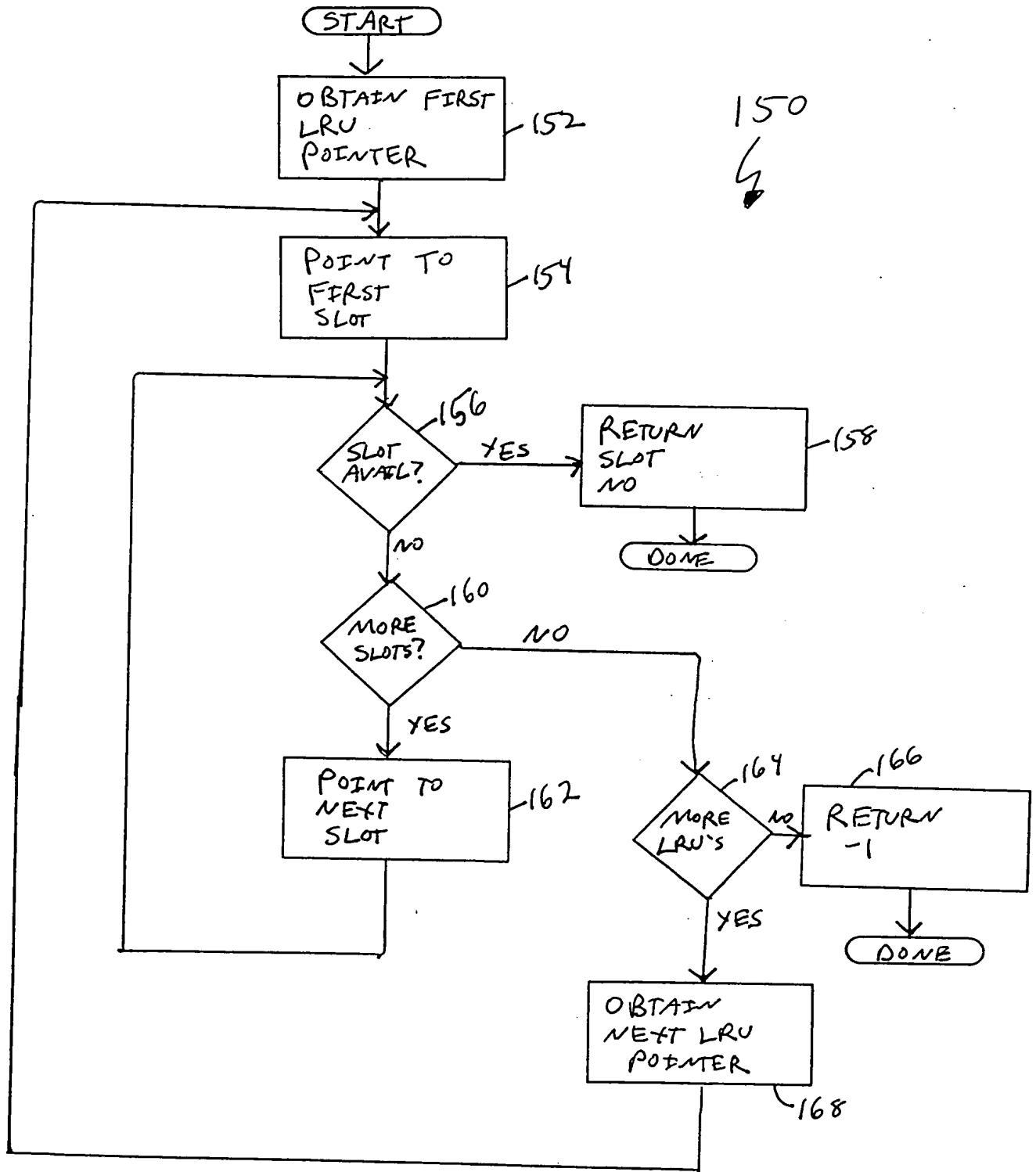


FIG. 9

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SLOT #	LRU
0	1
1	1
2	2
3	2
4	2
5	2
6	3
7	4
8	4
9	4
10	4
11	4
12	4

170
6
→

FIG. 10